

Guangzhou Geliang Lighting Technology Co.,Ltd

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Digital Dance Floor User Manual RG-DDF33S100-V0



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1. Packing List

1.1. Control System

CD 1pcs

Power cable ____pcs

Signal Cable ____pcs

Digital Dance Floor

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Connecting Cables __pcs

1.1.1. By SD Card Control Box ○

1. Main controller __pcs with : ☐Sound Control ☐Remote Control ☐DMX ☐Audio Control
2. Sub Controller __pcs Which have been integrated into the cabinet __pcs
3. Audio Controller __pcs
4. Remote Controller __pcs

1.1.2. By Computer ○

1. Main Controller __pcs
2. Sub Controller __pcs, which have been integrated into the cabinet __pcs
3. SD card __pcs (in the main controller)

1.2. Products and Parts

1. RG-DDF125 Digital Dance Floor __m²
2. Lamp PCB __pcs, with all electronic accessories
3. Connection Strap __pcs, Screw __pcs
4. LEDs, Red __pcs , Green __pcs, Blue __pcs
5. IC __pcs
6. 9013 __pcs, 7805 __pcs

1.3. Other

1. Digital Dance Floor __pcs
2. User Manual __pcs

2. Product Features

- Unlimited programming effects
- Special lighting effect
- 32-bit colour (16.7 million color combinations)
- Modular & highly portable
- No technical experience required
- Quick and easy installation
- More affordable than any existing solutions
- Sealed for long, durable lifetime
- No bulbs to replace

3. Specifications

3.1. Physical Specifications

Product Series: Traditional Stage Lighting

Item No.: RG-DDF33S100-V0

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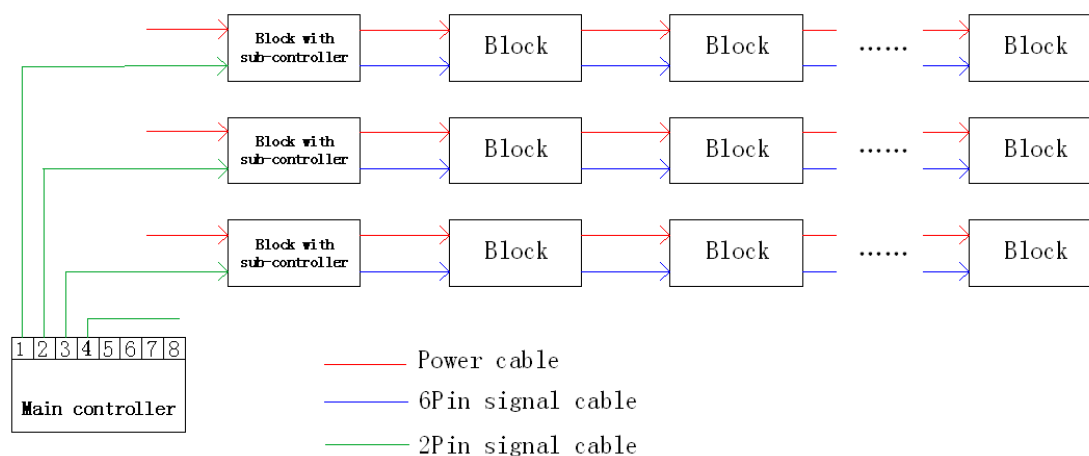
Size: 600 x 600 x 51 mm ± 1 mm, Not including the foot (12mm)。
Net Weight: 11Kg
Gross Weight: Kg
LEDs: (R:3 pcs G:3 pcs B:3pcs)X36 total 432 pcs
Pixels: 36 dots(6x6)per square meter
Color: White / black
Material: Acrylic panels, Iron cabinet, Plastic foot
Package Quantity: 1pcs
Package Size:
Control mode: Controller(with SD card), Computer(optional), DMX(optional),
Sound Control(optional),
Audio Control (optional), Remote Control(optional)
Working Temperature: -25°C~+35°C

3.2. Electrical Specifications

Power: 36W
Voltage: AC 90-240V 50/60Hz
Service Life: 50000hour
Gray Level: 256

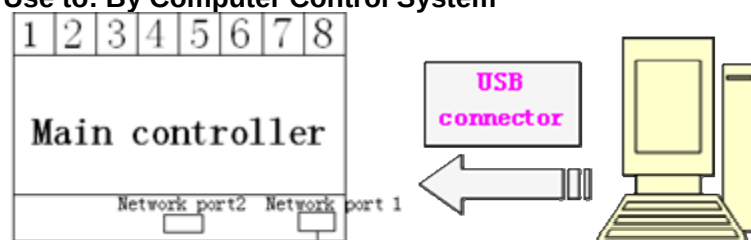
4. Connection Diagram

4.1. Main Controller, Sub Controller, Block



4.2. Computer, Main Controller(optional)

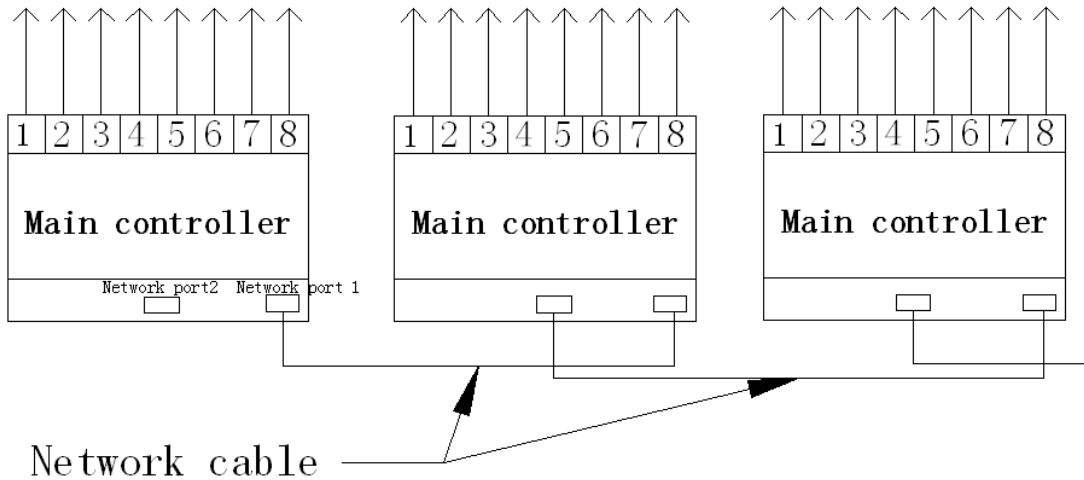
Use to: By Computer Control System



4.3. Cascade between the Main Controller(optional)

Use to : the lines more than 8.

Eq.: the diagram bellow showed 3 main controllers connected with 18lines of digital dance floors



5. Install Step

1. To find out those digital dance floors which are connected with sub controller and then decide their position. Those dance floors with sub controllers are posted with labels of "sub controller" at the entrance of them.
2. To decide the placement of main controller
3. Connecting the source of power, but do not let it be electrified!
4. Connecting the main controller and sub controller
5. Installing the other digital dance floors
6. Fixing the digital dance floor.
7. Let it be electrified and then test them. Make sure to start the power of controller first, then start the power of digital dance floor.

6. To Install, Setup, Use, Uninstall of the Player

6.1. Install and Uninstall

Following the above Connection Diagram to connect all the wire correctly, then power on it. The computer will indicate that hardware has been found (Optional).

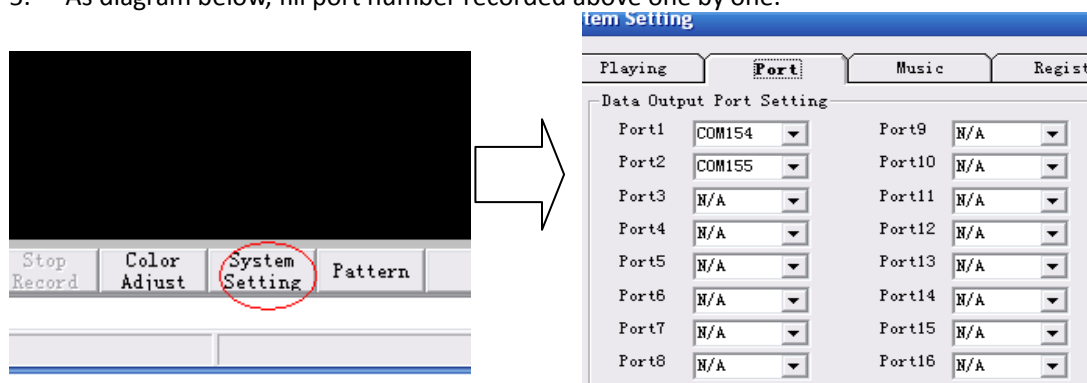
Insert the incidental CD into CD-ROM, Copy the only folder "RG-125" into the place where you can easily find it, we hereafter refer it as "RG-125" for short, into RG-DF125\Player folder.

- Double click Install.bat to install the player.
- Double click Player.exe startup the player, in order to use it conveniently; you can set up a shortcut on the desktop.
- Double click UnInstall.bat to uninstall the player.

6.2. Setup

Use to: By Computer Control System.

1. Please find "my computer "on the desktop and right-click on the icon.
2. To choose the bottom menu "Properties (R)", show the "System Properties" dialog box
3. Switch to the "hardware" tab, click on "Device Manager" button. Show "Device Manager" dialog box.
4. Click device tree "port (COM and LPT)" and expand this node, then record all the port number of the device which is named as super serial port, general have 2 ports in one computer.
5. As diagram below, fill port number recorded above one by one.



Click OK to close System Setting dialog, and the system could be used now.

6.3. SD Card Recording

6.3.1. Overview

1. The Player is for the CF card controller or SD card controller.
2. The user can edit or create new video and copy to the CF/SD card by the Player.

6.3.2. Process



6.3.3. Edit & Record the Video

6.3.3.1. Run the Player

Double click execute file Player.exe the window of the editing software "Seekway LED Player" will appear.

6.3.3.2 Screen Capture

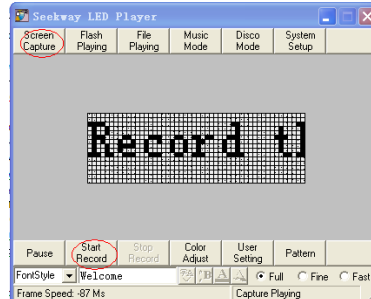
- | | | |
|--|---|---|
| 1. Click the "Screen Capture" button, it can capture the | 2. Move the Capture window to he place where you want | 3. Press "Start Record" to start record, and press "Stop" |
|--|---|---|

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video or image show in desktop in different format including

Flash、VCD、DVD、RMVB、WMA、MPGE and so on.



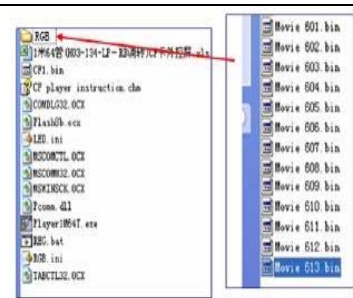
to record, the size of the window are also adjustable.



Record" to stop record.



4. To confirm you have successes for recording a new movie, you can check if new bin documents have been created in the Movie folder which named RGB.



5. You can also check if a new movie created in The "Movie File Preview" if you click the "File Playing" button.



6.3.3.3. Word addition

You can add the word to the video or image which you want to record. Word display with adjustable font、Style、size、color、direction color at your will. You are also able to add the word to the video which you had record.



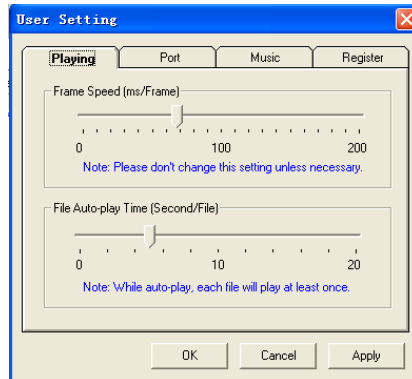
1. Double click this area to input the word, no limit at the word count.
2. Double click the word, the Word format window will appear. Double click the background; the color of the word can be changed. Right click the background, the location of word can be moved.

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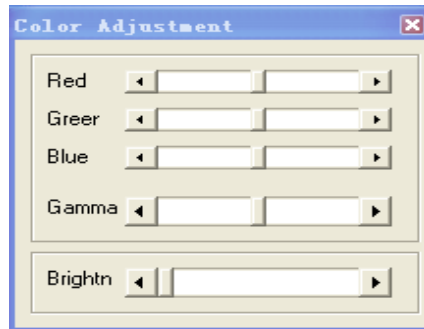
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6.3.3.4. Playing Setting

Before the record, you can click the "system Before the recording, you may Start record the video by clicking the "Start Setting" and " Playing Setting" to adjust the "File Auto-play Time" if need.



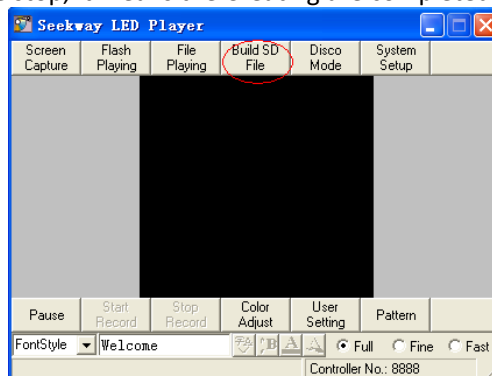
6.3.3.5. Color adjustment



Click the "Color Adjust" to adjust the brightness and gamma if need.

6.3.4. Create CF File

1. Click the "Create CF File" button, all of the movie will be played in a higher speech one by one. While the movie stop, it means the Creating are completed.



2. You can see a new SD1(8888).bin document have been created or recover the old CF1.bin in the File.

6.3.5. Copy the File to CF Card

1. Insert the CF/SD card into CF/SD card reader correctly, and insert the USB inlet of Card reader into the outlet of computer. Or insert the SD card to the outlet of portable computer directly.



2. Formatting the CF/SD card by FAT.



3. Copy the SD1(8888).bin document to the card.
4. Move the Card out by safety mode to avoid the damage to the card.



6.3.6. Play the Video

1. Insert the CF/SD card into the CF/SD card controller which is Power off.
2. Power on the controller, now the video you record would be displayed in LED Screen.

7. DMX Decoding Function

Use to: DMX Control

7.1. General

- 1.All of the SD card controller are capable of adding the DMX decoding function.
- 2.Following the communications protocol of DMX512 / 1990.
- 3.Connecting the light console and other DMX

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devices by the added external standard XLR connector.

4.Occupying 9 addresses on the console, setting scope from 1 to 504.

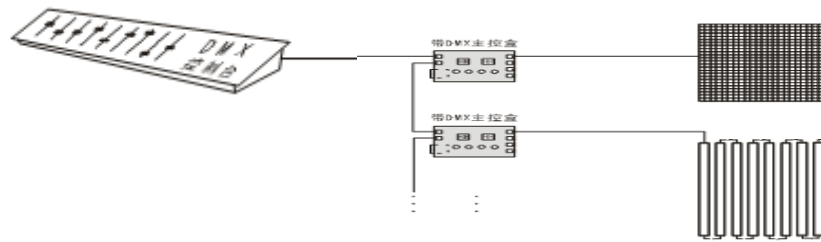
5.Memory for addressing. Support 99 modes.

6.Compatibility for DMX control and offline control.

7. Mode and Address can auto remember.



8-0-1



8-0-2

7.2. Connection

See Diagram 8-0-2

1. 3P XLR connector standard : Pin 1: Shield (GND), PIN 2: Data Complement (-), Pin 3: Data True (+).
2. Input connector: Male, receive the source from DMX console Output connector: Female, connect the other devices.
3. The SD card controller is powered by AC220V.



8-0-3

7.3. Operation

See Diagram 8-0-3

[Display]

1. Switch on the power of SD card controller, the ex-work default first channel address "d001" is appeared. it means the channel address are 001 to 009. [Addressing]
2. e.g.: Press 9 time of the "Speed/address +", "d009" appear, it means the channel are 009-016.
3. There is memory for the channels addressing.

[Decoding]

1. To control the speed and mode or to record the light scene, pushing the slider of the console up or down.
2. During these 8 channels, the first Chanel is the speed control, second to eighth channels are the corresponding.
3. e.g.: If the first address is d010 then slider of 9th channel control the speed and slider of

Digital Dance Floor

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11th-17th control the mode. (Reference the right form)

[Offline ctrl]

1. Pressing the button of "mode+" or "mode-", the display "dx" will turn to "double-digit" mode, it means the controller is in offline control status.(The connecting with the console will be ignored).
2. You can control the speed and mode by directly pressing the button on the panel of the SD card controller.
3. Mode 0 is a automatic circulative display mode.
4. Reset the power of SD card controller or adjust the mode to "dxxx", it will comeback to the DMX control status.

8. Technical Support

Support Telephone: +8620-86872001/2/3-609

Support Email: support@rigelighting.com (QQ、 MSN as same)

Website: <http://www.rigelighting.com>

WAP: <http://www.rige.mobi>

Suggestions and Complaints: complaint@rigelighting.com

Working Time: (BeiJing Time)

Monday to Friday 08:00~12:00 13:30~17:30 18:30~20:30

Saturday 09:00~12:00 13:30~17:00

Note: all the rest of China's holidays!

9. Important

- Do not power the installation process.
- When installing our LED-products, please employ an electrician, who can exactly follow our installation instructions.

10. Disclaimer

While every care has been taken with the details on this specification sheet, we take no responsibility for any inaccuracies caused during installation. We reserve the right to change these specifications without notice to always ensure that the customer is receiving a superior product.

11. Amendment Log

- 2010.09.10 The first version was produced. Version: 1.0.0.1
- 2010.10.18 Add the SD card effect. Version: 1.1.0.2
- 2012.5.7 Refresh and revise the user manual. Version: 1.1.0.3

12. Appendix

12.1. DMX Channel Explanation

Display effect number=CH3+CH4+CH5+CH6 (base on d001 code which will be display on the control box)

(d002: speed CH3; effect number: CH4+CH5+CH6+CH7

d003: speed CH4; effect number:CH5+CH6+CH7+CH8 and so on.)

Channel	Channel value	Function Description
CH1	0-255	
CH2	0-49	Speed 7
	50-99	Speed 8
	100-149	Speed 9
	150-199	Speed 10
	200-249	Speed 11
	250-255	Speed 12
CH3	0-128	0
	129-255	50
CH4	0-49	0
	50-99	10
	100-149	20
	150-199	30
	200-255	40
CH5	0-128	0
	129-255	5
CH6	0-49	0
	50-99	1
	100-149	2
	150-199	3
	200-255	4

12.2. Supplement

SN	Common malfunction	Analyze the reasons	Solution
1	Single LED does not turn on	①LED damaged ②Led-foot short-circuit	①Replace LED ②Clean impurity between the led foot
2	One string LED (4Leds) does not turn on	①The shunt resistance of this string LED is an insufficient solder ②One Led was damaged, insufficient solder	①Repair welding the shunt resistance ②Replace or Repair welding the LED

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3	One color LED does not turn	①The transistor launch / collector Weld of this color LED is an insufficient solder ②IC was damaged ③This color of transistor pull-up resistor is an insufficient solder	①Repair welding pin triode ②Replace IC ③Repair welding on the pull-up resistor (4.7 K)
4	All the LED does not turn.	①IC was damaged、insufficient solder ②Transistor to the ground jumper is an insufficient solder	①replace or Repair welding IC ②Repair welding the jumper
5	LED normally on	①Signal transmission circuit ②IC was damaged、insufficient solder ③Transistor base to the IC pin jumper is an insufficient solder	①Repair welding output or the level before the input cable seat, replace the connecting ②Replace or repair welding IC ③Repair welding pole jumper pin triode
6	One color quite bright /dark	①Limiting resistor was damaged ②LED was damaged ③IC was damaged	①Replace limiting resistor ②Replace LED ③Replace IC
7	Power applied, a piece of floor LED turn off	①A piece of circuit board the dance floor had short-circuit power with the ground	①The floor is divided into 8 small floor, then power tests, remove the short circuit